This Page is Inserted by IFW Indexing and Scanning Operations and is not part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

BLACK BORDERS

IMAGE CUT OFF AT TOP, BOTTOM OR SIDES

FADED TEXT OR DRAWING

BLURRED OR ILLEGIBLE TEXT OR DRAWING

SKEWED/SLANTED IMAGES

COLOR OR BLACK AND WHITE PHOTOGRAPHS

GRAY SCALE DOCUMENTS

LINES OR MARKS ON ORIGINAL DOCUMENT

REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY

OTHER:

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.

FORM PTO 14	FORM PTO 1449 (modified)				ATTY DOCKET NO. 00862.021692. APPLICATION NO. 09/719,523				
		ARTMENT OF COMMERCE AND TRADEMARK OFFICE RENCES CITED BY APPLICA everal sheets if necessary)	NT(S)	AOJI ISONO ET AL.					
II APR Z U 7002	اسا	everal enects ii libuessally)		FILING DATE	March 29, 2001		GROUP 26	573	
24	<u>*/</u>			U.S. PATENT DO	CUMENTS				
*EXIMINER INITIAL		DOCUMENT NUMBER	DATE		NAME	CLAS	S SUBCLASS	FILING DATE IF APPROPRIATE	
				_					
									
		·				REC	CEIVE	D	
						API	e 2 2004 ogy Center	0000	
						- Technol	ogy Center	2600	
			FO	REIGN PATENT C	OCUMENTS				
		DOCUMENT NUMBER	DATE		COUNTRY	ÇLAS	S SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT	
63)	KRA	1997-0031143	06/26/97		KOREA			not avail.	
									
			-						
					·				
 		ОТН	ER DOCUMENT(S	(Including Author	Title, Date, Pertinent Pages, Etc.	.)			
		,						· .	
	þ /			·		<i> </i>	m e 1		
EXAMINER	8060	an Dhas	olitation to in confer		ONSIDERED 609: Draw line through citation if	06/	U 7 1	arad Induda aanu	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include cop of this form with next communication to applicant.

Sheet 1 of 1

Form #62

NY_MAIN422122v1

FORM PTO 14		PARTMENT OF COMMERC	f	ATTY DOCKET NO. 00862.021692.	APPLICATI	ON NO. 09/719,	523	
. LIS	PATENT	RENCES CITED BY APPLIC everal sheets (hecessary)	F	APPLICANT AOJI ISO	NO ET AL.			
•		1 0 2002 필		FILING DATE March 29, 2001		ROUP 20	673	
	\0	<i>[6]</i>		U.S. PATENT DOCUMENTS				
*EXAMINER INITIAL	VEN &	TRAD NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
		5,754,148	05/19/98	Kishino et al.	345	74 -		
19		5,721,560	02/24/98	Cathey, Jr. et al.	345	74 -		
		5,578,906	11/26/96	Smith	315	169.3		
						RECE	IVED_	
						JUN 1	1 2002	
	1 1				7	hobbolom.	Camban 8008	
					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	acunoiofià	Center 2600	
			FO	REIGN PATENT DOCUMENTS	 			
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT	
89	_	0 707 301 A1	04/17/96	EPO			400.	
09		WO 96/15519	05/23/96	WIPO			Abstr.	
	-							
								
						· ·		
	OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
				<u>, </u>	,			
EXAMINER /	Focus	God - DL	OVIC	DATE CONSIDERED // / /	03.			
		THE CAR	Det /	DATE CONSIDERED //	<u>, , , , , , , , , , , , , , , , , , , </u>			

*EXAMINER: Initial If reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1

FORM PTO 1449 (modified)				ATTY DOCKET NO. APPLICATION NO. 09/719,523					
, us	T OF BER	PARTMENT OF COMI FAND TRADEMARK (MENCES CITED BY A	DDI ICANT/S)	APPLICANT AOJI ISONO ET AL.					
APR 7 6 2001 (Use several sheets if necessary) EXAMINER DOCUMENT NUMBER DATE				FILING DATE December 13, 200		GROUP AU 2673.			
40	J. S. T.	·		U.S. PATENT DOCUMENTS					
-EVANINE	NA PARTY	DOCUMENT		O.S. PATENT BOOMENTS			EU INC DATE		
INITIAL		NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
	†				+				
		<u></u>				ļ			
		1							
	<u> </u>								
					·				
	ļ	-							
		1					:		
									
	<u>. </u>	11							
	T	1	FOR	REIGN PATENT DOCUMENTS		-			
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT		
0	JPA	04204993A	7/27/92	Japan	G09G	3/36	Abstract		
	JPA	62-206589	9/11/87	Japan	G09G	3/22	No		
000	JPA	02273720	8/11/90	Japan	G02F	1/133	Abstract		
0	JPA	4-107293	9/16/92	Japan	G09G	3/12	YES.		
99	JPA	02272490	7/11/90	Japan	G09G	3/36	Abstract		
			OTHER DOCUMENT(S)	(Including Author, Title, Date, Pertinent Pages,	Etc.)				
					· · · · · · · · · · · · · · · · · · ·				
			, <u>, , , , , , , , , , , , , , , , , , </u>		 				
		,							
		·		,					
EXAMINER	8060	dh Dhai		DATE CONSIDERED // /	4/203				
				DATE CONCIDENCE	1 /				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 4 of 4

FORM PTO 1449 (modified)				ATTY DOCKET NO. 862.C1692 APPLICATION NO. 09/719,523				
LIS	T OF REFE	PARTMENT OF COMM AND TRADEMARK OF ANCES CITED BY A Byral sheets if neces		APPLICANT AOJI ISONO ET AL.				
PAPR 2	6 2001 .	Section streets in neces	saryj	FILING DATE December 13, 2000		GROUP A	ィ <i>26す</i> ろ IYA	
(4)	- Coli			U.S. PATENT DOCUMENTS				
P APR 2	E/AIN'	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
					_			
				·				
		·	_					
	<u> </u>			FOREIGN PATENT DOCUMENTS				
,		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT	
	JPA	60-216387	4/12/84	Japan	G09G	3/12	No	
0	JPA	11-167366	6/22/99	Japan	G09G	3/20	Abstract	
QQ .	JPA	10-172479	6/26/98	Japan	G09G	3/26	Abstract	
00	JPA	63-304228	12/12/88	Japan	G02F	3/22	Abstract	
00	JPA	03048889	1/3/91	Japan	G09G	3/36	Abstract	
			OTHER DOCUMENT	(S) (Including Author, Title, Date, Pertinent Pages, Etc.)				
			*		-			
	,			•		·		
EXAMINER 1	Tabo	de Ti	aria.	DATE CONSIDERED 1/14	12003	<u> </u>		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 3 of 4

			<u></u>						
FORM PTO		ified) EPARTMENT OF CO	MMERCE	ATTY DOCKET NO. 862.C1692	APPLICAT	100 NO. 09/719,5	523		
LIS	PATES	AND TRADEMARI	OFFICE	APPLICANT AOJI ISONO ET AL.					
PAPR 2	6 2009.	8		FILING DATE December 13, 2000		GROUP AUL	2673, Known		
م`\ ا	7 06	7		U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	MARKOF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE		
						·			
			1	FOREIGN PATENT DOCUMENTS					
	ļ	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT		

·									
<i>\(\)</i>	1	T	OTHER DOCUMENT	T(S) (Including Author, Title, Date, Perlinent Pages, Etc.)		·			
		"Field Emiss pp. 89-185.	sion", W.P. Dyk	e et al., Advances In Electronics and	Electron	Physics,	(1956),		
89		"Physical Pr J. Appl. Phy	operties of Thi s., 47,5248 (197	n-Film Field Emission Cathodes With 76), pp. 5248-5263.	Molybe	dium Con	es",		
9		"Operation of April1961, p	of Tunnel-Emis p.646-652	sion Devices". C.A.Mead, J. Appl. Phy	/s., vol. :	32, Numbe	er 4,		
				1 /					
EXAMINER	EXAMINER Problem DLaria DATE CONSIDERED 11/14/2003.								

'EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 2 of 4

FORM PTO		fied)	MMERCE	ATTY DOCKET NO. 862.C1692	APPLIC	ATION NO. 09/719	,523		
LIS	PATEN	TAND TRADEMARK ERPICES CITED BY second sheets if necessity	OFFICE	APPLICANT AOJI ISON	AOJI ISONO ET AL.				
EXAMINER INITIAL	2 6 2001	Setaph sheets if Nex	essaly)	FILING DATE December 13, 2000					
TA .	.00	8/		U.S. PATENT DOCUMENTS					
*EXAMINER INITIAL	40EWIT	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE		
D		4,904,895	02/27/90	Tsukomoto et al.	313	336	i.		
00		5,066,883	11/19/91	Yoshioka et al.	313	309			
		3,569,974	11/29/96	Morikawa et al.	313	310			
200		5,682,085	10/28/97	Suzuki et al.	315	169.1			
	ļ								
						ļ			
i 					·				
				FOREIGN DATENT DOCUMENTO					
	T		Γ	FOREIGN PATENT DOCUMENTS		1			
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT		
(b)	JP	3055738	03/11/91	JAPAN	HO1J	001/30	ABSTRACT		
<u> </u>	JP	4028137	01/30/92	JAPAN	но1Ј	001/30	ABSTRACT		
	JP	2257551	10/18/90	JAPAN	HO1J	031/15	ABSTRACT		
8	JP	1031332	02/01/89	JAPAN	HO1J	001/20	ABSTRACT		
		1							
 -			OTHER DOCUME	ENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)					
A		"Electrical C Thin Film So	conduction Applies, 9 (1972)	nd Electron Emission of Discontinuou , pp. 317-328.	s Thin F	ilms", G. I	Dittmer,		
23		"Electroform Vol. 26, No.	ning and Elec 1, pp. 22-29 (1	tron Emission of Carbon Thin Films", 1983).	Hisashi	Asaki et a	I., Vacuum,		
03		"Strong Electronal	tion Emissio Electron Dev	n From Patterned Tin-Indium Oxide TI vices Meeting, Washington DC (1975)	nin Film: pp. 519-	s", M. Hart 521.	well et al.,		
8		"The Emissi	on of Hot Ele	ctrons and The Field Emission of Elec Engineering and Electronic Physics,	trons F	rom Tin Ox	(idė",)-1296.		
EXAMINER	1sa	600U	Dheria	DATE CONSIDERED 11 14 12	2002	, pp. 1200			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO 1449	•	SE 1 P.C.	ATTY DOCKET NO. 00862.021692.	APPLICATI	ON NO. 09/719,	523	
1 =	U.S. DEPARTMENT OF COMMERC PATENT AND TRADEMARK OFFI OF REFERENCES CITED BY APPUL (Use several sheets if necessary)	CANTIES (C)	APPLICANT AOJI ISONO ET AL.				
		MAR 1 6 2004	FILING DATE March 29, 2001		ROUP	573	
		D	U.S. PATENT DOCUMENTS				
*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
				REC	EIVE	ED	
				 	1 9 200		
				Technoio	gy Cente	2600	
		FOF	REIGN PATENT DOCUMENTS				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT	
			•		,		
	· ·						
· /\	<u> </u>		(Including Author, Title, Date, Pertinent Pages, Etc.)				
A	R. MEYER, "Rec Vacuum Microel	ent Developm ectronics Con	ent on "Microtips" Display at LETI, f., Nagahama (1991), pp. 6-9	" Technic	cal Digest	of 4th Int.	
	0			,			
		<i>د</i> ,	DATE CONSIDERED 0 3/24	104			
EXAMINER: Initial if	reference considered, whether or n	ot citation is in conform	nance with MPEP 609; Draw line through citation if not in	conformance a	and not conside	red. Include copy	

Sheet_1_of_

Form #62

NY_MAIN414377v1